

Patent Abstracts of Japan

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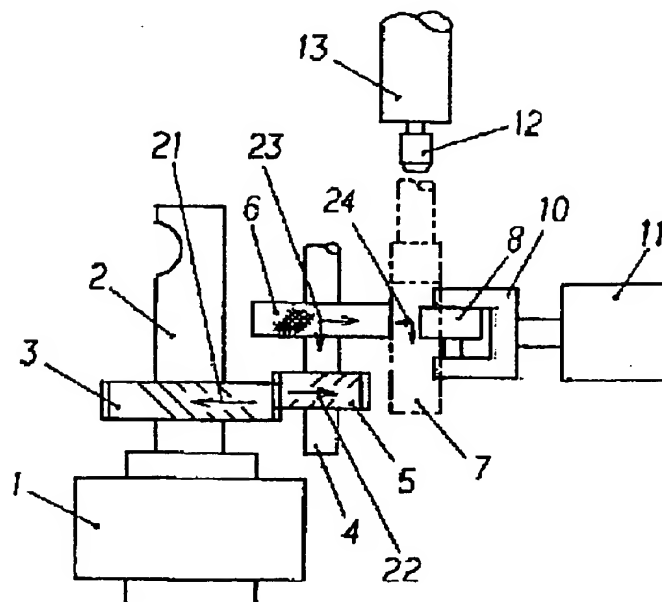
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TITLE : NOZZLE CLEANER



ABSTRACT : PURPOSE: To provide the nozzle cleaner to remove in a short time automatically spatters which are stuck to the welding torch nozzle inside tip and hinder welding at the time of continuous automatic welding by a robot.

CONSTITUTION: The nozzle cleaner is provided with a means which presses and holds a nozzle 7 with three rolls of a holding roller 6 and pressing rollers 8, 9, a means which detach the screwed nozzle 7 by rotating the roller 6, a means which changes welding torch with a spatter removing cylinder 3, a means which remover spatter by inserting a spatter removing member 12 inside the nozzle, and a means which changes the welding torch again, turns over roller 6, and screws the nozzle into the welding torch 7. In addition, a means which rotates via helical gears 3 and 5 and utilizes a component force in the axial direction in the rotation process for axial direction force of attaching and removing of the nozzle and a means to obtain rotation and inversion as an actuator to invert and oscillate driving of the holding roller 6 are provided.

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